

Service
Service
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301204

Service Manual

1. Introduction

The 32PF9976/12 is a FTL2.2E AA chassis.

Electrical the FTL2.2E AA chassis is almost identical to the FTL2.1E AA.

- All PWB layouts are the same. Only for **SA** (LCD standby/ Audio PWB), a new version is used, the new PWB layouts and schematics are available in this publication.
- For repair use the manual of the FTL2.1E AA (3122 785 14620).

Note: When the manual of the FTL2.1E AA will be updated, both the FTL2.1E AA and FTL2.2E AA will be included in one manual.

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2. Delta FTL2.2 vs. FTL2.1

The differences of the FTL2.2E chassis with respect to the FTL2.1E chassis are listed below.

2.1 Option codes

Table 2-1 Option codes of the 32PF9976/12

46436	40992	49472	04096
04118	01537	16448	49601

2.2 Mechanical

The main difference between the FTL2.1 and FTL2.2 is the mechanical styling. The FTL2.1 uses a “Top” styling, the FTL2.2 uses a “Soft Wrap” styling. See photo above.

2.3 DFU (Directions For Use)

Model specific DFU's can be downloaded from the following website:

<http://www.philips.com/support>

2.4 Commercial specifications

Table 2-2 Commercial specifications

FTL2.1	FTL2.2
Ambi-light	No Ambi-light
PixelPlus II	PixelPlus
Sound 3*15W	Sound: 2*15W
5 speakers	4 speakers
Full Dual Window	No Full Dual Window

2.5 Spare Parts

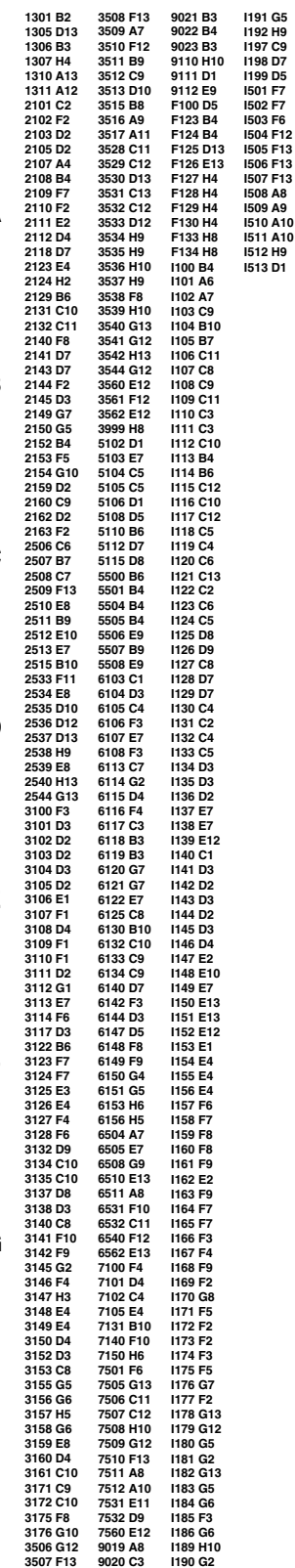
In the update manual the complete Spare Part list will be available. At this moment, a model specific spare part list, can be downloaded from the following website:

<http://www.atyourservice.ce.philips.com>

STANDBY

Caution: Both and symbols can indicate a HOT ground in this schematic!!

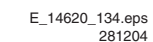
SA 2



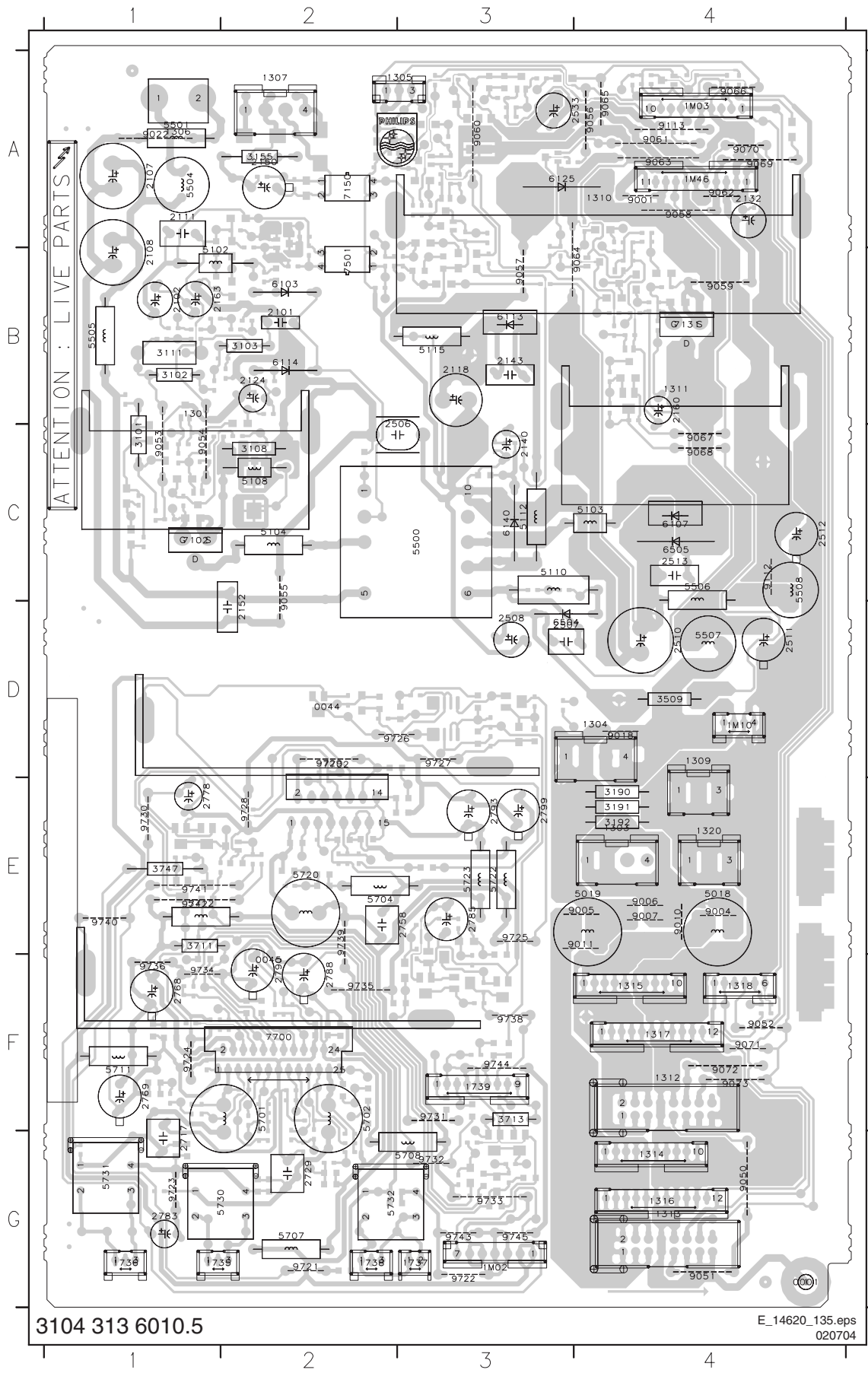
8204 000 8314.5

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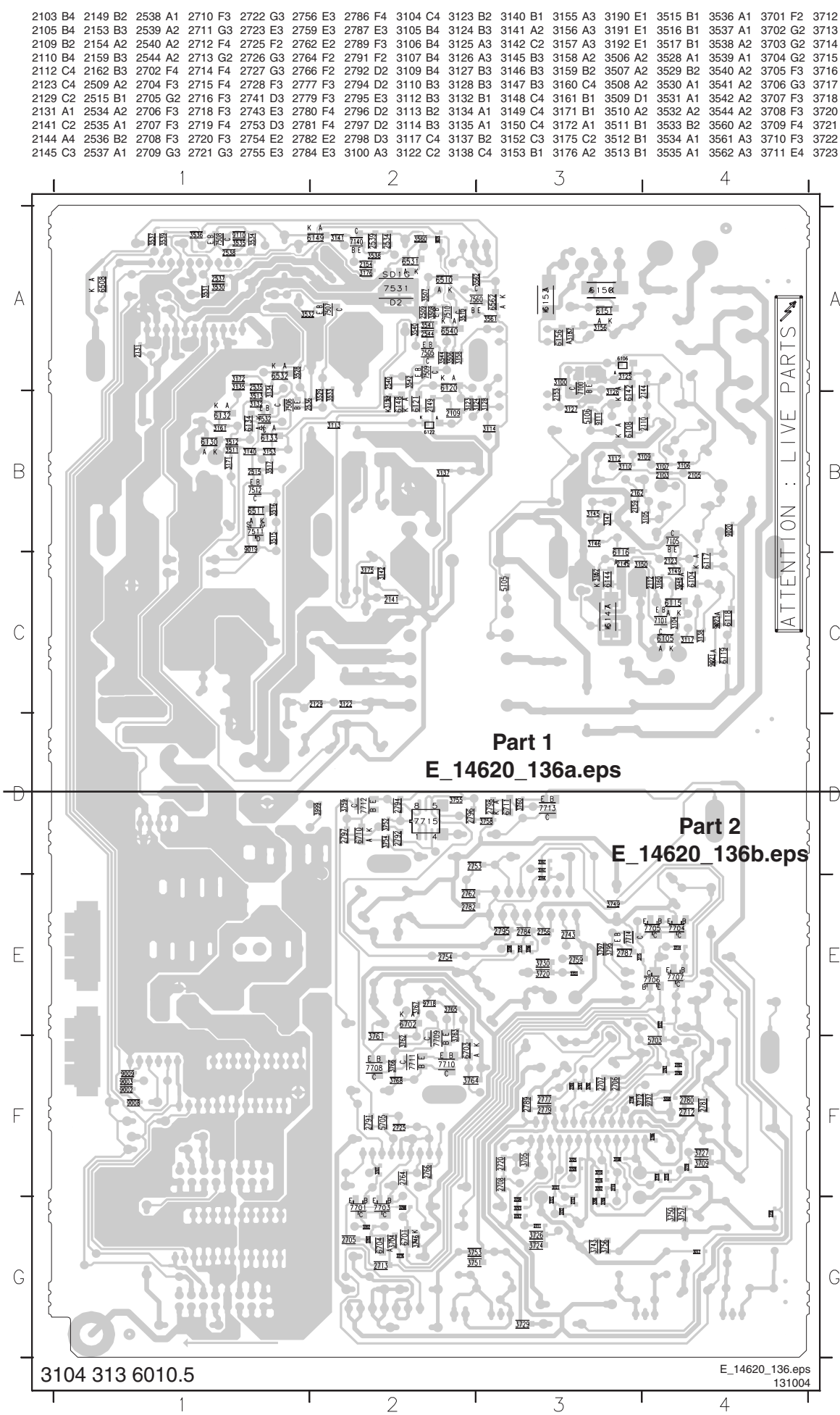
0044	F13	2705 A7	2715 F4	2726 E3	2758 G9	2780 E5	2790 E2	3701 E6	3711 D5	3722 C2	3744 G12	3755 B10	3765 C12	3796 E11	5711 D5	6703 C12	7706 C6	7715-2 C11	F720 G6	F743 B9	7703 B6	7713 E4	7723 B9	7733 C10	7743 C12	7753 B3	7763 C6	7773 F9	7784 B3	7795 F6
0045	B2	2706 B4	2716 E4	2727 E3	2759 F8	2781 D5	2791 C7	3702 B6	3712 E3	3723 C2	3746 C6	3756 F4	3766 B14	3797 C5	5712 D5	6704 B6	7707 C5	7717 B5	F721 G6	F744 B9	7704 A6	7714 C8	7724 D3	7734 F12	7744 D5	7754 E3	7764 C13	7774 F9	7785 B4	7796 C12
1735	F2	2707 A3	2717 G4	2728 E3	2762 E13	2782 D12	2792 C8	3703 A6	3713 D7	3724 F2	3748 C5	3757 G3	3767 B12	3798 D6	5720 F9	6710 D8	7708 C13	7718 B13	F722 F2	F745 A9	7705 D6	7715 A7	7725 C2	7735 D8	7745 B4	7755 F4	7765 D1	7776 E4	7786 B4	7797 C12
1736	C2	2708 A3	2718 E3	2729 F3	2764 B3	2783 C7	2793 D13	3704 B6	3714 C8	3725 E3	3748 C5	3758 C10	3768 A13	5701 F4	5722 D13	6711 E8	7709 C13	F718 B2	F731 G6	F747 F5	7706 D5	7716 E3	7726 C3	7736 E8	7746 E13	7756 C2	7766 D3	7777 E2	7787 C4	7798 E5
1737	F9	2709 D6	2719 G5	2730 F2	2765 E12	2784 D11	2794 C9	3705 B6	3715 D7	3726 F2	3749 C6	3759 C11	3769 B8	5702 F9	5723 D12	6712 E8	7710 C9	F719 C9	F732 B6	F748 C9	7707 D3	7717 B5	7727 E3	7737 E8	7747 B6	7757 F8	7767 E8	7778 E4	7789 E4	7799 E4
1738	F7	2710 D6	2720 B3	2743 F13	2768 E5	2785 B13	2795 D12	3706 E6	3716 B6	3727 F5	3750 G3	3760 E8	3791 C3	5703 B5	5730 F2	6701 B7	7711 B13	F711 A2	F737 G6	F749 G6	7708 F12	7718 B5	7728 C9	7738 C6	7748 B3	7758 E11	7768 G3	7779 E3	7790 F3	
1739	F5	2711 E2	2721 C2	2753 E3	2769 D5	2786 B4	2796 C10	3707 D6	3717 F4	3728 G9	3751 G8	3761 A12	3792 B3	5704 F7	5731 G2	6702 E11	7712 D9	F712 A2	F738 F6	F751 F6	7709 E4	7719 E3	7729 C9	7739 B6	7749 B3	7759 E11	7769 F3	7780 E13	7791 B12	
1740	A9	2712 D5	2722 D2	2754 D11	2777 D2	2787 C5	2797 D8	3708 E6	3718 G4	3730 F7	3752 B9	3762 B12	3793 B4	5705 F6	5732 G8	6703 C7	7713 E9	F713 C3	F739 B2	7700 E6	7710 F5	7720 C8	7730 F7	7740 D9	7750 E12	7760 C5	7770 G2	7781 C13	7792 B13	
1741	C9	2713 B2	2723 F9	2755 D11	2778 D12	2789 C5	2799 D13	3709 E8	3719 G2	3731 F2	3753 B8	3764 C12	3795 C5	5706 F2	5733 G1	6704 E11	7714 C9	F714 B2	F739 E8	7701 E3	7711 D5	7721 C9	7731 F2	7741 D9	7751 E13	7761 C9	7771 G2	7782 C13	7793 E4	
2704	C3	2714 D5	2725 F6	2756 D11	2779 E3	2789 D5	2799 D13	3710 E4	3721 B2	3733 F7	3754 C8	3764 C12	3795 C5	5708 E2	5732 B12	6705 B12	7715 C9	F715 C9	F739 B2	7702 A6	7712 A5	7722 B3	7732 B6	7742 C12	7752 E13	7762 D11	7772 F8	7783 B3	7794 B12	



Layout LCD Standby Audio Panel (Top Side)



Layout LCD Standby Audio Panel (Overview Bottom Side)



0001 G4	5507 D4
0044 D1	5508 C4
0045 E1	5701 F2
1301 B1	5702 F2
1303 E4	5704 E2
1304 D4	5707 G2
1305 A3	5708 G3
1306 A1	5711 F1
1307 A2	5712 E1
1309 D4	5720 E2
1310 A3	5722 E3
1311 B4	5723 E3
1312 F4	5730 G2
1313 G4	5731 G1
1314 G4	5732 G3
1315 F4	6103 B2
1316 G4	6107 C4
1317 F4	6113 B3
1318 F4	6114 B2
1320 E4	6125 A3
1735 G1	6140 C3
1736 G1	6504 D3
1737 G3	6505 C4
1738 G2	7102 C1
1739 F3	7131 B4
1M02 G3	7150 A2
1M03 A4	7501 B2
1M10 D4	7700 F2
1M46 A4	7702 E3
2101 B2	9001 A4
2102 B1	9004 E4
2107 A1	9005 E4
2108 A1	9006 E4
2111 A1	9007 E4
2118 B3	9010 E4
2124 B2	9011 E4
2132 A4	9018 D4
2140 C3	9022 A1
2143 B3	9050 G4
2150 A2	9051 G4
2152 D2	9052 F4
2160 B4	9053 B1
2163 B1	9054 B1
2506 B2	9055 C2
2507 D3	9056 A4
2508 D3	9057 A3
2510 D4	9058 A4
2511 D4	9059 B4
2512 C4	9060 A3
2513 C4	9061 A4
2533 A4	9062 A4
2717 F1	9063 A4
2729 G2	9064 A3
2758 E3	9065 A4
2768 F1	9066 A4
2769 F1	9067 C4
2778 E1	9068 C4
2783 G1	9069 A4
2785 E3	9070 A4
2788 F2	9071 F4
2790 E2	9072 F4
2793 E3	9073 F4
2799 E3	9112 C4
3101 B1	9113 A4
3102 B1	9121 G2
3103 B2	9122 G3
3108 C2	9123 G1
3111 B1	9124 F1
3155 A2	9125 E3
3190 E3	9126 D2
3191 E3	9127 D3
3192 E3	9128 E2
3509 D4	9129 D2
3711 F1	9130 E1
3713 F3	9131 F3
3747 E1	9132 G3
5018 E4	9133 G3
5019 E4	9134 F1
5102 B2	9135 F3
5103 C4	9136 F1
5104 C2	9138 F3
5108 C1	9139 F2
5110 C3	9140 E1
5112 C3	9141 E1
5115 B3	9142 E1
5500 C3	9143 G3
5501 A1	9144 F3
5504 A1	9145 G3
5505 B1	
5506 C4	

Layout LCD Standby Audio Panel (Part 2 Bottom Side)

